



Practitioner's Docket No. U 015123-3

*IPW*  
**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent application  
of

Inventor(s)

for

Title of invention

**OR**

In re application of: MURALI SASTRY, et al.

Serial No.: 10/814,856

Group No. 1773

Filed: March 31, 2004

Examiner:

For: PROCESS FOR PREPARING MICRON/NANO SIZE INORGANIC PARTICLES

**Commissioner for Patents**

P. O. Box 1450

Alexandria, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR  
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. 1.97(b))**

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\* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(j). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

**NOTE:** 37 C.F.R. 1.98(b):

- (1) *Each U.S. patent listed in an information disclosure statement must be identified by inventor, patent number, and issue date.*
- (2) *Each U.S. patent application published listed in an information disclosure statement shall be identified by applicant, patent application publication number, and publication date.*
- (3) *Each U.S. application listed in an information disclosure statement must be identified by the inventor, application number, and filing date.*
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- (5) *Each publication listed in an information disclosure statement must be identified by publisher, author (if any), title, relevant pages of the publication, date, and place of publication.*

**WARNING:**

*No extension of time can be had under 37 C.F.R. § 1.36 (a) or (b) for filing an IDS. 37 C.F.R. § 1.97(f).*

**NOTE:** The "filing date of a national application" under 37 C.F.R. 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 C.F.R. 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. 37 C.F.R. 1.97(b)(2).

### **IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT**

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. 1.97(b).

**NOTE:** "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing."

**NOTE:** "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 C.F.R. 1.8, or Express Mail certificate under 37 C.F.R. 1.10. An office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**NOTE:** "The term 'national application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**NOTE:** "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 C.F.R. 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**WARNING:** "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).

If a fee is required, please charge deposit account 12-0425.



J Richards Aug 25, 858

SIGNATURE OF PRACTITIONER

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PATENT

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Commissioner for Patents

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Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

We draw the attention of the Examiner to the attached references some of which are considered in the specification and which are also listed on the attached Form PTO-1449.

Respectfully submitted,

  
JOHN RICHARDS  
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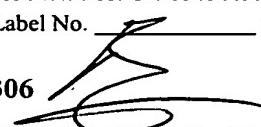
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FORM PTO-1449

U. S DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.	SERIAL NO.
U 015123-3	10/814,856
APPLICANT	
MURALI SASTRY et al.	
FILING DATE	GROUP
03/31/2004	

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	FILING DATE IF APPROPRIATE
AA				

## OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)

AB	Yu, Shu-Hong, et al. "Growth and Self-Assembly of BaCrO <sub>4</sub> and BaSO <sub>4</sub> Nanofibers toward Hierarchical and Repetitive Superstructures by Polymer-Controlled Mineralization Reactions", <i>NANO Letters</i> (2003), 3(3): 379-382
AC	Donners, Jack J.J.M. et al. "A Shape-Persistent Polymeric Crystallization Template for CaCO <sub>3</sub> ", <i>J. Am. Chem. Soc.</i> (2002), 124: 9700-9701
AD	Aizenberg, Joanna et al. "Oriented Growth of Calcite Controlled by Self-Assembled Monolayers of Functionalized Alkanethiols Supported on Gold and Silver", <i>J. Am. Chem. Soc.</i> (1999), 121: 4500-4509
AE	Sastry, Murali et al. "Crystallization of SrCO <sub>3</sub> within thermally evaporated fatty acid films: unusual morphology of crystal aggregates", <i>CrystEngComm</i> (2001), 21: 1-3
AF	Landau, Ehud M. et al. "Transfer of structural information from Langmuir monolayers to three-dimensional growing crystals", <i>Nature</i> (1985), 318: 353-356
AG	Uzgiris, Egidijus E. and Roger D. Kornberg. "Two-dimensional crystallization technique for imaging macromolecules, with application to antigen-antibody-complement complexes", <i>Nature</i> (1983), 301: 125-129
AH	Qi, Limin, et al. "Reverse Micelle Based Formation of BaCO <sub>3</sub> Nanowires", <i>J. Phys. Chem. B.</i> (1997), 101(18):3460-3463
AI	Rautaray, Debabrata et al. "Morphology of BaSO <sub>4</sub> Crystals Grown on Templates of Varying Dimensionality: The Case of Cysteine-Capped Gold Nanoparticles (0-D), DNA (1-D), and Lipid Bilayer Stacks (2-D)", <i>Crystal Growth &amp; Design</i> (2002), 2(3): 197-203
AJ	Sastry, Murali et al. "Langmuir-Blodgett Films of Carboxylic Acid Derivatized Silver Colloidal Particles: Role of Subphase pH on Degree of Cluster Incorporation", <i>J. Phys. Chem. B.</i> (1997), 101(25): 4954-4958
AK	Tian, Yongchi et al. "Fluorescence Activation and Surface State Reactions of Size-Quantized Cadmium Sulfide Particles in Langmuir-Blodgett Films", <i>J. Phys. Chem.</i> (1994), 98(18): 4913-4918
AL	Yang, Jianping et al. "Epitaxial Growth of Size-Quantized Cadmium Sulfide Crystals under Arachidic Acid Monolayers", <i>J. Phys. Chem.</i> (1995), 99(15): 5500-5504
AM	Rees, Gareth D. et al. "Formation and Morphology of Calcium Sulfate Nanoparticles and Nanowires in Water-in-Oil Microemulsions", <i>Langmuir</i> (1999), 15(6): 1993-2002
AN	Taleb, A. et al. "Synthesis of Highly Monodisperse Silver Nanoparticles from AOT Reverse Micelles: A Way to 2D and 3D Self-Organization", <i>Chem. Mater.</i> (1997), 9(4): 950-959

EXAMINER	DATE CONSIDERED
EXAMINER:	Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	U 015123-3	10/814,856
	APPLICANT	
	MURALI SASTRY et al.	
	FILING DATE	GROUP
	03/31/2004	

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	FILING DATE IF APPROPRIATE
AA				
OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)				
AB	Travaille, A. Markus, et al. "Aligned Growth of Calcite Crystals on a Self-Assembled Monolayer", <i>Advanced Materials</i> (2002), 14(7): 492-495			
AC	Damle, Chinmay et al. "Growth of Calcium Carbonate Crystals within Fatty Acid Bilayer Stacks", <i>Langmuir</i> (2002), 18(16): 6075-6080			
AD	Urquhart, Robert S. et al. "Studies of the Formation and Growth of Q-State Cadmium Selenide Particles in Cadmium Arachidate Langmuir-Blodgett Films", <i>Langmuir</i> (1995), 11(4): 1127-1133			
AE	Rautaray, Debabrata et al. "SrCO <sub>3</sub> Crystals of Ribbonlike Morphology Grown within Thermally Evaporated Sodium Bis-2-ethylhexylsulfosuccinate Thin Films", <i>Langmuir</i> (2003), 19(3): 888-892			
AF	Heywood, Brigid R. and Stephen Mann. "Template-Directed Inorganic Crystallization: Oriented Nucleation of Barium Sulfate under Langmuir Monolayers of an Aliphatic Long Chain Phosphonate", <i>Langmuir</i> (1992), 8(5): 1492-1498			
AG	Li, Mei and Stephen Mann. "Emergence of Morphological Complexity in BaSO <sub>4</sub> Fibers Synthesized in AOT Microemulsions", <i>Langmuir</i> (2000), 16(17): 7088-7094			
AH	Heywood, Brigid R. and Stephen Mann. "Organic Template-Directed Inorganic Crystallization: Oriented Nucleation of BaSO <sub>4</sub> under Compressed Langmuir Monolayers", <i>J. Am. Chem. Soc.</i> (1992), 114(12): 4681-4686			
AI	Küther, Jörg et al. "Templated Crystallisation of Calcium and Strontium Carbonates on Centred Rectangular Self-Assembled Monolayer Substrates", <i>Chem. Eur. J.</i> (1998), 4(9): 1834-1842			
AJ	Lao, Jing Yu et al. "Hierarchical ZnO Nanostructures", <i>NANO Letters</i> (2002), 2(11): 1287-1291			
AK	Yu, Shu-Hong et al. "Control of the Morphogenesis of Barium Chromate by Using Double-Hydrophilic Block Copolymers (DHBCs) as Crystal Growth Modifiers", <i>Chem. Eur. J.</i> (2002), 8(13): 2937-1945			
AL				
AM				
AN				

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